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<p>(51) International patent classification<sup>6</sup> : A01N 57/20 // (A01N 57/20, 41:06, 37:48, 33:22)</p>	A1	<p>(11) International publication number: <b>WO 96/22692</b> (43) International publication date: 1 August 1996 (01.08.96)</p>
<p>(21) International application number: PCT/EP96/00072 (22) International filing date: 10 January 1996 (10.01.96) (30) Data relating to the priority: 195 01 986.5 24 January 1995 (24.01.95) DE (71) Applicant (for all designated States except US): HOECHST SCHERING AGREVO GMBH [DE/DE]: Mirastrasse 54, D-13509 Berlin (DE). (72) Inventors; and (75) Inventors/Applicants (US only): Jürgen CREMER [DE/ DE]: Taunusstrasse 62, D-65817 Eppstein (DE). Jean KOCUR [DE/DE]: Am Heiligenstock 1, D-65719 Hofheim (DE). Georges KRUG [DE/DE]: Liederbacher- strasse 8, D-65929 Frankfurt (DE).</p>	<p>(81) Designated States: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN; ARIPO Patent (KE, LS, MW, SD, SZ, UG); European Patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE); OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> With the International Search Report. Before expiry of the period provided for amending the claims. Further publication will be made if such amendments are received.</p>	
<p>(54) Title: SYNERGISTIC HERBICIDAL AGENTS BASED ON GLUFOSINATES AND NITRODIPHENYL ETHERS AND THEIR FORMULATIONS</p> <p>(54) Bezeichnung: SYNERGISTISCHE HERBIZIDE MITTEL AUS BASIS GLUFOSINATE UND NITRODIPHENYLETHERN SOWIE DEREN FORMULIERUNGEN</p> <p>(57) Abstract</p> <p>Herbicides containing A) glufosinates or their salts or similar agents like bialaphos, B) a nitrodiphenyl ether herbicide like oxyfluorophene and C) an alkyl polyglycol ether sulphate tenside have synergistic herbicidal effects. Components A, B and C can be jointly formulated in the form of an aqueous emulsion in which there are 1-15 % A), 0.1 to 5 % B), 1-15 % C), 3 to 30 % organic solvent, 40-60 % water, 2-10 % emulsifier and 0 to 20 % ordinary formulation auxiliaries.</p> <p>(57) Zusammenfassung</p> <p>Herbizide Mittel mit einem Gehalt an A) Glufosinate oder deren Salze oder analoge Mittel wie Bialaphos, B) ein Nitrodiphenyletherherbizid wie Oxyfluorphen und C) ein Alkylpolyglykolethersulfat-Tensid weisen synergistische herbizide Wirkungen auf. Die gemeinsame Formulierung der Komponenten A, B und C ist in Form einer wäßrigen Emulsion möglich, die gekennzeichnet ist durch 1-15 % A), 0,1 bis 5 % B), 1-15 % C), 3 bis 30 % org. Lösungsmittel, 40-60 % Wasser, 2-10 % Emulgator und 0 bis 20 % üblicher Formulierungshilfsmittel.</p>		

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DIALOG(R)File 351:DERWENT WPI

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WPI Acc No: 95-082820/199512

Related WPI Acc No: 91-239106

XRAM Acc No: C95-037265

XRPX Acc No: N95-065698

Increasing crop yields with glutamine synthetase inhibitors - by  
application to plants resistant to such inhibitors, partic. transgenic  
plants

Patent Assignee: HOECHST-SCHERING AGREVO GMBH (AGRE ); HOECHST SCHERING  
AGREVO GMBH (AGRE )

Inventor: DONN G; GUENTER D

Number of Countries: 058 Number of Patents: 017

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 4327056	A1	19950216	DE 4327056	A	19930812	A01N-057/20	199512 B
WO 9505082	A1	19950223	WO 94EP2598	A	19940805	A01N-057/20	199513
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CZ 9600412	A3	19960515	CZ 96412	A	19940805	A01N-057/20	199627
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Priority Applications (No Type Date): DE 4327056 A 19930812; DE 4003045 A

19900202

Cited Patents: DE 3200486; EP 242236; EP 481407

Patent Details:

Patent	Kind	Lang	Pg	Filing	Notes	Application	Patent
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DE 4327056	A1		5				
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WO 9505082	A1	G	13				
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Designated States (National): AM AU BB BG BR BY CA CN CZ FI GE HU JP KG  
KP KR KZ LK LT LV MD MG MN NO NZ PL RO RU SI SK TJ TT UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC  
MW NL OA PT SD SE

AU 9474979	A			Based on		WO 9505082	
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ZA 9406038	A		11				
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EP 714237	A1	G		Based on		WO 9505082	
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NL PT SE

BR 9407237	A			Based on		WO 9505082	
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JP 9501179	W		10	Based on		WO 9505082	
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HU 74593	T			Based on		WO 9505082	
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NZ 271372	A			Based on		WO 9505082	
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US 5739082	A		4	Cont of	US 92910329		
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EP 714237	B1	G		Based on	WO 9505082		
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
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DE 59407241	G			Based on	EP 714237		
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AU 700325	B			Previous Publ.	AU 9474979		
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				CIP of	US 94279706		
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				CIP of	US 5633434		
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Abstract (Basic): DE 4327056 A

Method for increasing yields from crop plants that are resistant to glutamine synthetase inhibitors (I) comprises treating the plants with (I) at application rates that do not harm the crop plants. Also claimed is the use of glufosinate and its salts for increasing yields in transgenic plants.

ADVANTAGE - Treatment of transgenic glufosinate-resistant maize and soya plants with glufosinate controls weeds and increases yields, e.g. by up to 25% and 52% respectively.

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Title Terms: INCREASE; CROP; YIELD; GLUTAMINE; SYNTHETASE; INHIBIT; APPLY; PLANT; RESISTANCE; INHIBIT; TRANSGENIC; PLANT

Derwent Class: C01; C03; D16; P13; Q42; Q57

International Patent Class (Main): A01N-000/00; A01N-057/02; A01N-057/20; F15D-001/00

International Patent Class (Additional): A01G-007/00; E03F-005/10; E03F-005/14

File Segment: CPI; EngPI

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